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	Document ID	Issue Date	Title	Current OR	Inventor
1	US 20040122996 A1	20040624	Appliance communications manager	710/36	Carau, Frank P SR. et al.
16	US 6721286 B1	20040413	Method and apparatus for device interaction by format	370/282	Williams; Peter Michael et al.

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1	US 20040122996	
16	US 6721286	

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93	US 6756879 B2	20040629	Method and apparatus for securing delivery of goods	340/5.73	Shuster; Gary Stephen
94	US 6714828 B2	20040330	Method and system for designing a probe card	700/97	Eldridge; Benjamin N. et al.
95	US 6685188 B2	20040203	Method and apparatus for performing a transaction without the use of spoken communication between the transaction parties	273/299	Rehbein; Jurg et al.

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93	US 6756879	
94	US 6714828	
95	US 6685188	

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9	US 6725214 B2	20040420	Apparatus and method to support management of uniform resource locators and/or contents of database servers	707/3	Garcia-Chiesa; Jorge

	Image Doc. Displayed	PT
9	US 6725214	

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09792443	Not Issued	061	02/23/2001	STORAGE-DEVICE ACTIVATION CONTROL FOR A HIGH-AVAILABILITY STORAGE SYSTEM	ACKARET, GARY R.
09351376	6460136	150	07/12/1999	METHOD AND APPARATUS FOR LOADING AN OPERATING SYSTEM KERNEL FROM A SHARED DISK MEMORY	ACKARET , GARY R.
09310073	Not Issued	080	05/10/1999	ABSTRACT OF A WEB BASED FORMS PRINTING SOLUTION	ACKARET , GARY R.

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3	US 20030093464 A1	20030515	Browser based multiple file upload	709/203	Clough, James et al.
4	US 20030088828 A1	20030508	ABSTRACT OF A WEB BASED FORMS PRINTING SOLUTION	715/505	ACKARET, GARY R.
5	US 20030086115 A1	20030508	Systems and methods for scheduling print jobs	358/1.15	Bhatti, Kristen L.
16	US 6721286 B1	20040413	Method and apparatus for device interaction by format	370/282	Williams; Peter Michael et al.

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1 Proceedings - only: Position paper: the role of platforms and operating systems in supporting home networks

Nigel Davies, Pierre-Guillaume Raverdy

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: pdf(37.75 KB) Additional Information: full citation, abstract, references

As researchers look beyond the PC there is increasing interest in developing and deploying sophisticated home networks. Such networks might allow the seamless integration of information and services produced both within the home and externally, enabling applications such as the purchase of on-line AV content, tight coupling between kitchen sensors and "Web Van" order forms, and home remote control. From a manufacturers perspective, particularly those manufacturers traditionally associated with b ...

2 Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms approach

John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(485.90 KB) Additional Information: full citation, abstract, references, index terms

This paper describes methods for service selection and service access for mobile, sensor-enhanced web clients such as wireless cameras or wireless PDAs with sensor devices attached. The clients announce their data-creating capabilities in "Produce" headers sent to servers; servers respond with forms that match these capabilities. Clients fill in these forms with sensor data as well as text or file data. The resultant system enables clients to access dynamically discovered services spontaneously, ...

Keywords: MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

3 Proceedings - only: Towards a real-world wide web

Tim Kindberg, John Barton

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Full text available: pdf(39.11 KB) Additional Information: full citation, abstract, references

As computer hardware shrinks and lightens and as communications becomes cheaper and more widely available, we have new opportunities for software systems to support *nomadic* users of *ubiquitous* or *pervasive* computing services [16, 24]. We are interested in systems

that support interaction with the physical world wherever users happen to be. More and more things in the physical world, such as our cars and domestic appliances, are becoming "smart". Users need a convenient frame ...

4 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: pdf(248.58 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

5 Adapation in a ubiquitous computing management architecture

Markus Lauff, Hans-Werner Gellersen

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(146.35 KB) Additional Information: full citation, references, index terms

6 Engineering component-based net-centric systems for embedded applications

Jens H. Jahnke

September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 26 Issue 5

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

The omnipresence of the Internet and the World Wide Web (Web) via phone lines, cable-TV, power lines, and wireless RF devices has created an inexpensive media for telemonitoring and remotely controlling distributed electronic appliances. The great variety of potential benefits of aggregating and connecting embedded systems over the Internet is matched by the currently unsolved problem of how to design, test, maintain, and evolve such heterogeneous, collaborative systems. Recently, component-orie ...

Keywords: SDL, component-oriented development, embedded softare, network-centric computing

7 Dealing with mobility: understanding access anytime, anywhere

Mark Perry, Kenton O'hara, Abigail Sellen, Barry Brown, Richard Harper

December 2001 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 8 Issue 4

Full text available: pdf(217.74 KB) Additional Information: full citation, abstract, references, citings, index terms

The rapid and accelerating move towards use of mobile technologies has increasingly provided people and organizations with the ability to work away from the office and on the

move. The new ways of working afforded by these technologies are often characterized in terms of access to information and people anytime, anywhere. This article presents a study of mobile workers that highlights different facets of *access* to remote people and information, and different facets of *anytime, anywhere ...*

Keywords: *Awareness, context, dead time, diary study, distributed collaboration, interviews, mobile communication, mobile technology, mobile workers, personal computing*

8 Making computers disappear: appliance data services

Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available: pdf(691.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

9 The future of integrated design of ubiquitous computing in combined real & virtual worlds

Daniel M. Russell, Mark Weiser

April 1998 **CHI 98 conference summary on Human factors in computing systems**

Full text available: pdf(273.30 KB) Additional Information: full citation, references, index terms

Keywords: real worlds, ubiquitous computing, virtual worlds

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1 At the Forge

Reuven M. Lerner

April 1998 **Linux Journal**

Full text available: html(24.23 KB) Additional Information: full citation, abstract, references, index terms

Using What We've Learned: This month Mr. Lerner shows us how to set up a web site using many of the techniques he's taught us over the past months

2 Techniques and tools for analyzing intrusion alerts

Peng Ning, Yun Cui, Douglas S. Reeves, Dingbang Xu

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, index terms

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and raise alerts independently, though there may be logical connections between them. In situations where there are intensive attacks, not only will actual alerts be mixed with false alerts, but the amount of alerts will also become unmanageable. As a result, it is difficult for human users or intrusion response systems to understand the alerts and take appropriate actions. This paper presents a sequence of t ...

Keywords: Intrusion detection, alert correlation, security management

3 Current technological impediments to business-to-consumer electronic commerce

Gregory Rose, Huoy Khoo, Detmar W. Straub

June 1999 **Communications of the AIS**

Full text available: pdf(479.36 KB) Additional Information: full citation, references, citings

4 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Full text available: pdf(947.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide

high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

5 Web mining for web personalization

Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Full text available: pdf(293.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

6 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: pdf(340.33 KB) Additional Information: full citation, abstract, references, index terms

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

7 Texture mapping 3D models of real-world scenes

Frederick M. Weinhaus, Venkat Devarajan

December 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 4

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, index terms, review

Texture mapping has become a popular tool in the computer graphics industry in the last few years because it is an easy way to achieve a high degree of realism in computer-generated imagery with very little effort. Over the last decade, texture-mapping techniques have advanced to the point where it is possible to generate real-time perspective simulations of real-world areas by texture mapping every object surface with texture from photographic images of these real-world areas. The techniqu ...

Keywords: anti-aliasing, height field, homogeneous coordinates, image perspective transformation, image warping, multiresolution data, perspective projection, polygons, ray

tracing, real-time scene generation, rectification, registration, texture mapping, visual simulators, voxels

8 Just fast keying: Key agreement in a hostile internet

William Aiello, Steven M. Bellovin, Matt Blaze, Ran Canetti, John Ioannidis, Angelos D. Keromytis, Omer Reingold

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Full text available: pdf(324.39 KB) Additional Information: full citation, abstract, references, index terms

We describe Just Fast Keying (JFK), a new key-exchange protocol, primarily designed for use in the IP security architecture. It is simple, efficient, and secure; we sketch a proof of the latter property. JFK also has a number of novel engineering parameters that permit a variety of tradeoffs, most notably the ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

Keywords: Cryptography, denial-of-service attacks

9 Information delivery systems: an exploration of Web pull and push technologies

Julie E. Kendall, Kenneth E. Kendall

April 1999 **Communications of the AIS**

Full text available: pdf(658.33 KB) Additional Information: full citation, references, citings, index terms

10 Sequential thematic organization of publications: how to achieve coherence in proposals and reports

J. R. Tracey, D. E. Rugh, W. S. Starkey

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3

Full text available: pdf(3.80 MB) Additional Information: full citation, index terms

11 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Full text available: pdf(4.85 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

12 On the notion of inheritance

Antero Taivalsaari

September 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 3

Full text available: pdf(609.81 KB) Additional Information: full citation, abstract, references, citings, index

terms

One of the most intriguing—and at the same time most problematic—notions in object-oriented programing is inheritance. Inheritance is commonly regarded as the feature that distinguishes object-oriented programming from other modern programming paradigms, but researchers rarely agree on its meaning and usage. Yet inheritance of often hailed as a solution to many problems hampering software development, and many of the alleged benefits of object-oriented programm ...

Keywords: delegation, incremental modification, inheritance, language constructs, object-oriented programming, programming languages

13 Authentication and authorization: Securing passwords against dictionary attacks

Benny Pinkas, Tomas Sander

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Full text available: pdf(216.72 KB) Additional Information: full citation, abstract, references, index terms

The use of passwords is a major point of vulnerability in computer security, as passwords are often easy to guess by automated programs running dictionary attacks. Passwords remain the most widely used authentication method despite their well-known security weaknesses. User authentication is clearly a practical problem. From the perspective of a service provider this problem needs to be solved within real-world constraints such as the available hardware and software infrastructures. From a user' ...

14 A survey of Web cache replacement strategies

Stefan Podlipnig, Laszlo Böszörmenyi

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(193.37 KB) Additional Information: full citation, abstract, references, index terms

Web caching is an important technique to scale the Internet. One important performance factor of Web caches is the replacement strategy. Due to specific characteristics of the World Wide Web, there exist a huge number of proposals for cache replacement. This article proposes a classification for these proposals that subsumes prior classifications. Using this classification, different proposals and their advantages and disadvantages are described. Furthermore, the article discusses the importance ...

Keywords: Web caching, replacement strategies

15 P-TAC: a parallel intermediate language

Zena Ariola, Arvind

November 1990 **Proceedings of the fourth international conference on Functional programming languages and computer architecture**

Full text available: pdf(1.47 MB) Additional Information: full citation, references, citings, index terms

16 P-uniform circuit complexity

Eric W. Allender

October 1989 **Journal of the ACM (JACM)**, Volume 36 Issue 4

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

Much complexity-theoretic work on parallelism has focused on the class NC, which is defined in terms of logspace-uniform circuits. Yet P-uniform circuit complexity is in some

ways a more natural setting for studying feasible parallelism. In this paper, P-uniform NC (PUNC) is characterized in terms of space-bounded AuxPDAs and alternating Turing Machines with bounded access to the input. The notions of general-purpose and special-purpose computation are considered, and a general-purpose para ...

17 Role-based access control on the web

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Full text available: pdf(331.03 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

18 Making asynchronous parallelism safe for the world

Guy L. Steele

December 1989 **Proceedings of the 17th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

We need a programming model that combines the advantages of the synchronous and asynchronous parallel styles. Synchronous programs are determinate (thus easier to reason about) and avoid synchronization overheads. Asynchronous programs are more flexible and handle conditionals more efficiently. Here we propose a programming model with the benefits of both styles. We allow asynchronous threads of control but restrict shared-memory accesses and other side effects so as to prevent t ...

19 The P2 algorithm for dynamic calculation of quantiles and histograms without storing observations

Raj Jain, Imrich Chlamtac

October 1985 **Communications of the ACM**, Volume 28 Issue 10

Full text available: pdf(836.98 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A heuristic algorithm is proposed for dynamic calculation of the median and other quantiles. The estimates are produced dynamically as the observations are generated. The observations are not stored; therefore, the algorithm has a very small and fixed storage requirement regardless of the number of observations. This makes it ideal for implementing in a quantile chip that can be used in industrial controllers and recorders. The algorithm is further extended to histogram plotting. The accura ...

20 JRes: a resource accounting interface for Java

Grzegorz Czajkowski, Thorsten von Eicken

October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 33 Issue 10

Full text available: pdf(2.01 MB) Additional Information: full citation, abstract, references, citings, index terms

With the spread of the Internet the computing model on server systems is undergoing several important changes. Recent research ideas concerning dynamic operating system extensibility are finding their way into the commercial domain, resulting in designs of extensible databases and Web servers. In addition, both ordinary users and service providers must deal with untrusted downloadable executable code of unknown origin and intentions.Across the board, Java has emerged as the language of choice fo ...

Keywords: Java, extensible systems, resource management

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21 Beyond ALBE/P: Language neutral form
J. W. Lewis
March 1981 **Proceedings of the 5th international conference on Software engineering**

Full text available: pdf(595.80 KB) Additional Information: full citation, abstract, references, citings, index terms

ALBE/P is a language-based CRT editor for PASCAL programs. The CRT screen serves as a window through which a programmer can view and modify a "pretty-printed" picture of any part of a PASCAL program. The ALBE/P system differs from conventional screen-oriented text editors in that the program is stored as a PASCAL parse tree and the editing operations are designed specifically for the PASCAL language. Moreover, because ALBE/P is language-based, it will not accept programs with lo ...

22 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

23 Taking the byte out of cookies: privacy, consent, and the Web
Daniel Lin, Michael C. Loui
June 1998 **ACM SIGCAS Computers and Society , Proceedings of the ethics and social impact component on Shaping policy in the information age**, Volume 28 Issue 2

Full text available: pdf(1.99 MB) Additional Information: full citation, abstract, references, citings, index terms

We consider the privacy of personal information on the World Wide Web, emphasizing a concept of privacy as an aspect of social relationships between individuals. We make three contributions to understanding the right to privacy on the Web: (1) we highlight the role of informed consent as an important consideration for privacy, (2) we identify conditions under which the collection and centralization of personal information can be ethically justified, and (3) we offer an interpretation of a "reaso ...

24 Incremental computation of planar maps

M. Gangnet, J.-C. Hervé, T. Pudet, J.-M. van Thong

July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques**, Volume 23 Issue 3

Full text available: pdf(867.32 KB) Additional Information: full citation, abstract, references, citings, index terms

A *planar map* is a figure formed by a set of intersecting lines and curves. Such an object captures both the geometrical and the topological information implicitly defined by the data. In the context of 2D drawing it provides a new interaction paradigm, *map sketching*, for editing graphic shapes.To build a planar map, one must compute curve intersections and deduce from them the map they define. The computed topology must be consistent with the underlying geometry. Robustness of geom ...

25 A first-class approach to genericity

Eric Allen, Jonathan Bannet, Robert Cartwright

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications**, Volume 38 Issue 11

Full text available: pdf(357.33 KB) Additional Information: full citation, abstract, references, index terms

This paper describes how to add first-class generic types---including mixins---to strongly-typed OO languages with nominal subtyping such as Java and C#. A generic type system is "first-class" if generic types can appear in any context where conventional types can appear. In this context, a mixin is simply a generic class that extends one of its type parameters, *e.g.*, a class C<T> that extends T. Although mixins of this form are widely used in Cpp (via templates), they are clumsy an ...

26 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

27 System Specifications for the DYSEAC

Alan L. Leiner

April 1954 **Journal of the ACM (JACM)**, Volume 1 Issue 2

Full text available: pdf(1.40 MB) Additional Information: full citation, index terms

28 Phoenix: a safe in-memory file system

Jason Gait

January 1990 **Communications of the ACM**, Volume 33 Issue 1

Full text available: pdf(524.81 KB) Additional Information: full citation, abstract, references, citings, index terms

Phoenix contains two timestamped versions of the in-memory file system allowing for a

reserve version that ensures safety for diskless computers with battery-powered memeory.

29 Dimensions of object-based language design

Peter Wegner

December 1987 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 22 Issue 12

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms

The design space of object-based languages is characterized in terms of objects, classes, inheritance, data abstraction, strong typing, concurrency, and persistence. Language classes (paradigms) associated with interesting subsets of these features are identified and language design issues for selected paradigms are examined. Orthogonal dimensions that span the object-oriented design space are related to non-orthogonal features of real languages. The self-referential application of object-o ...

30 Semantic database modeling: survey, applications, and research issues

Richard Hull, Roger King

September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3

Full text available: pdf(5.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple record-based format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

31 A relation-based language interpreter for a content addressable file store

T. R. Addis

June 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 2

Full text available: pdf(2.50 MB) Additional Information: full citation, abstract, references, citings, index terms

The combination of the Content Addressable File Store (CAFS®; CAFS is a registered trademark of International Computers Limited) and an extension of relational analysis is described. This combination allows a simple and compact implementation of a database query and update language (FIDL). The language has one of the important properties of a "natural" language interface by using a "world model" derived from the relational analysis. The interpreter (FLIN) takes f ...

Keywords: content addressing

32 Analysis of a very large web search engine query log

Craig Silverstein, Hannes Marais, Monika Henzinger, Michael Moricz

September 1999 **ACM SIGIR Forum**, Volume 33 Issue 1

Full text available: pdf(706.45 KB) Additional Information: full citation, abstract, citings, index terms

In this paper we present an analysis of an AltaVista Search Engine query log consisting of approximately 1 billion entries for search requests over a period of six weeks. This represents almost 285 million user sessions, each an attempt to fill a single information need. We present an analysis of individual queries, query duplication, and query sessions. We also present results of a correlation analysis of the log entries, studying the interaction of terms within queries. Our data supports the c ...

33 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and memory locality with transformations that rely on tracking the properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

34 A Tutorial on Algol 68

Andrew S. Tanenbaum

June 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 2

Full text available: pdf(2.92 MB) Additional Information: full citation, references, citings, index terms

35 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

36 Approximation algorithms for multiple-tool miling

Sunil Arya, Siu-Wing Cheng, David M. Mount

June 1998 **Proceedings of the fourteenth annual symposium on Computational geometry**

Full text available: pdf(1.42 MB) Additional Information: full citation, references, citings, index terms

37 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3

Full text available: pdf(1.92 MB) Additional Information: full citation

38 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

39 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(9.17 MB) Additional Information: full citation, references, citings, index terms

40 Some interface issues in developing intelligent communication aids for people with disabilities

Kathleen F. McCoy, Patrick Demasco, Christopher A. Pennington, Arlene Luberoff Badman

January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**

Full text available: pdf(977.62 KB) Additional Information: full citation, references, citings, index terms

Keywords: intelligent augmentative communication devices, interfaces for people with disabilities, natural language processing

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1 **Wide-area content-based routing mechanism**
Mitra, A.; Maheswaran, M.; Rueda, J.A.;
Parallel and Distributed Processing Symposium, 2003. Proceedings. International , 22-26 April 2003
Pages:8 pp.

[Abstract] [PDF Full-Text (338 KB)] **IEEE CNF**

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